Reply to OA of: March 21, 2006

This listing of claims will replace all prior versions and listings of claims in the

application.

Listing of Claims:

1(currently amended). A clutching mechanism comprising:

at least one elastic layer which is a thin layer with a rim area surrounding a

deformable area; two sides of said elastic layer defining an upper surface and a lower

surface:

at least two protrusions erected on said lower surface of said deformable area

of said elastic layer(s) and extended outwardly; a tip of each of said protrusions defining

a clutching point; said clutching points being separated at a predetermined distance;

a supporting mechanism anchored on said upper surface of said elastic layer(s)

in said rim area; and

a driving mechanism deforming said elastic layer in a way that said deformable

area is sunken inwardly, and thereby said clutching points of said protrusions moving

closer to each other within a distance shorter than said predetermined distance;

wherein said clutching mechanism is a micro/nano clutching mechanism.

2(original). The clutching mechanism of claim 1, wherein said elastic layer(s) is

made of elastic silica gel materials.

3(original). The clutching mechanism of claim 1, wherein said elastic layer(s) is

a round thin layer and said supporting mechanism is a hollow tube, a rim of a cross

section of said hollow tube being fixed to said rim area of said upper surface of said

elastic layer(s), said protrusions are arranged uniformly in a pattern of an equilateral

polygon in said deformable area on said lower surface of said elastic layer(s).

Claim 4(canceled).

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5(original). The clutching mechanism of claim 1, wherein the shape of said

protrusions is selected from a group of a cone, a cylinder, a sloped-top cylinder, a

rectangular body, and a triangular cone.

6(original). The clutching mechanism of claim 1, wherein said driving mechanism

is a vacuum pump.

Claims 7-13(canceled).

14(new). The clutching mechanism of claim 1, wherein said supporting means

does not obstruct said deformable area when said deformable area is sunken inwardly.

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